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Spontaneous Deposition of Protactinium on Various
Metals, by M. Camargat, M. G. Fouissieres, N.
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AEC Tr 1365

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S.L.A. Tr 1311

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The Structure of Gelatin I. State of Dispersion
of Gelatin in Solution, Molecular Weight, Viscosity,
and Fractionation, by J. Pouradier, A. M. Vanot,
18 p.

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SLA 60-10386

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Vol III, No 3

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STRUCTURE AND TEXTURE OF CATALYTICALLY
ACTIVE METALLIC PLATES, sp.
Order from ATS 511.85 ATS-18761
Trans. of Journal de Chimie Physique (France)
1950, v. 47, p. 213-228.

(C) 1950-1951, v. 47, p. 213-228

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I. Mathieu, M.
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III. Associated Technical
Services, Inc.,
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CONTRIBUTION TO THE STUDY OF THE STRUCTURE OF GELATIN. II. VARIATION OF PHYSICAL AND MECHANICAL PROPERTIES WITH THE MOLECULAR MASS. [1960] 17p. (7 figs. 7 tables omitted) 18 refs.
Order from SIA mi\$2.40, ph\$3.30 61-10410

Trans. of [[ournal de] Chem[ie] Phys[ique] (France) 1950, v. 47, [no. 5/6] p. 391-398.

Measurements were made on homogeneous gelatins obtained by fractionating a commercial gelatin. The intrinsic viscosity of these homogeneous fractions is related to molecular mass by an equation of the type $[\eta] : KM$, and which in the special case of fractions extracted from skin gelatin by liming and having an isoelectric point of 4.75 and an average molecular mass of 63,000, becomes $[\eta] : 1.66 \times 10^{-5} M^{0.885}$. The melting point of gelatin gels increases with the molecular mass and tends towards a limited value. (Author) (See also 60-10386)

61-10410

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III. Title: Variation...

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Signer, R. and Demagistri, A.
PREPARATION AND PROPERTIES OF POLYSTYRENE-
SULFONIC ACIDS. [1963] 8p (figs formulae omitted)
Order from SLA \$1.10 63-20160

Trans. of [Journal] de Chim[ie] Physiq[ue] (France)
1950, v. 45, p. 704-707.

DESCRIPTORS: *Styrenes, Polymers, *Sulfonic acids,
*Sulfonation, Synthesis (Chemistry), Electrolytes,
Chemical properties, Viscosity.

1. Title: Polystyrene sulfonic acids
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- II. Demagistri, A.

(Chemistry--Organic, TT, v. 10, no. 12)

Office of Technical Services

63-18982

Chapiro, Adolphe.
POLYMERIZATION OF VINYL COMPOUNDS INITI-
ATED BY GAMMA RAYS. [1963] [34p] 4 refs
Order from SLA \$3.60 63-18982

Trans. of Journal de Chimie Physique (France)
1950, v. 47, p. 747-763.

DESCRIPTORS: *Gamma rays, *Styrene plastics,
*Vinyl plastics, *Polymerization, Polymers, Solvents,
Chemical precipitation, Reaction kinetics, Radiation
chemistry.

The kinetics of the polymerization of styrene by gamma
rays was studied in different diluents. The addition of
small quantities of diluent to the monomer generally
produces an acceleration of the polymerization due to
the greater "fragility" of the molecule of diluent to the
action of gamma rays, the molecule of styrene being
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1. Chapiro, A.

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The Actions of Radiations Ionized by Water and
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Feschbach, D.
SELF-DIFFUSION OF S^{2-} AND Ag^+ IONS IN SILVER
SULPHIDE. Pt. 2 of Determination of Self-Diffusion
Coefficients by the Isotopic Exchange Method. [1962]
[25]p. 22 refs.
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DESCRIPTORS: *Crystals, *Silver compounds, Sulfides,
Ions, *Silver, *Sulfur, Diffusion, Electrical conductance,
*Tracer studies.

The self-diffusion coefficients of S^{2-} and Ag^+ in
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are expressed by means of the equations:

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AEC Tr 1988

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Agency: Flotating Arsenal
P.O. No. 95-09b
Title: ON SOME PHYSICAL AND CHEMICAL PROPERTIES OF
ULTRA-SONIC CAVITATION
Author: Renaud, Pierre.
Source: Journal de Chimie Physique, Vol. 48. (1951).
Language: French. pp. 336-338 3pp
Special instruction: Please translate & type 1 cpy only.

Role of Oxygen Radicals in Oxidations and Re-
ductions Caused by Ionizing Radiation. 2. The
Mechanism of Reactions According to Analysis of
the Gases Produced, by M. Lefort, M. Haissinsky,
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French *S. Chuvpilo*
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pp 368-371.

AEC Tr 1989

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Full translation.

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Vol XLVIII, prob Paris, Oct 1951, p 372.

CIA/FDD/U-5848

WEur - France

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SLA 58-78

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Preparation of H_2O in a small amount of carrier,
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Changes of the Reaction Velocity Between an
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SLA 61-18908

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The Structure of Gelatin⁵, IV. Comparison of
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SLA 60-10385

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Measurement of Partial Vapor Pressures of
 $\text{HNO}_3\text{-H}_2\text{O}$ Mixtures at 20°C and Verification
of the Margules-Duhem Equation, by M. R.
Vandoni, M. Laudy, 8 pp.

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G. Aunis, 11 pp.

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46 pp.

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POLISHING. [1960] 8p.
Order from ATS \$15.85 ATS-97N47F

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Analysis
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The Structure of Gelatine, V. Degradation of
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SLA 60-10384

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Sci - Nuc Phys
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ABSORPTION SPECTRA AND DIRECTING POWER
OF THE SUBSTITUENTS IN THE FLUORINATED
BENZENES (Spectres d'Absorption et Pouvoir
Directeur des Substituants dans les Benzènes
Fluorés [1961] [24]p. (foreign text included) 32 refs.
Order from S.A. \$2.60 62-10563

Trans. of Journal de Chimie Physique (France)
1952, v. 49, no. 6, p. 377-384.

DESCRIPTORS: *Benzenes, *Fluorides, Spectro-
graphic analysis, Absorption, Ionization potentials.

The spectra of a series of fluorinated benzenes were
studied in the region from 1700 to 2300 Å. The total
intensities and the oscillatory forces seem to be
only slightly influenced, but the weak suspended

(Chemistry - Physical, TT, v. 7, no. 10) (over)

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II. Zimring, Lois J.
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IV. Contract NSG-41-020(09)

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Theoretical Problems Associated With the
Determination of the Coefficients of Auto-
Diffusion in Solids by the Method of Heterogeneous
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The Infrared Spectrum and the Study of Water in
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the Problem, by Jean LeConte, 34 pp. UNCLASSIFIED

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V. Study of Mixtures of Human Anti-B Isoagglutinins, by
by S. Filitt-Wurmser, G. Aubel-Lesure, R. Wurmser,
13 pp.

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NIE 5-7

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III. Sedimentation Constants of Isoagglutinins,
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11 pp.

FRENCH, per, Jour Chim Phys, Vol L, 1953, pp
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NIH 5-6

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POLYMERIZATION AND DEPOLYMERIZATION BY
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Order from SLA \$1.60

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DESCRIPTORS: *Radiochemistry, *X-rays, Radiation
effects, *Acrylic acids, *Polymerization, Decomposition,
Inhibition, Amines, Sulfides, Indoles, Chemical bonds.

(Chemistry--Physical, TT, v. 9, no. 2)

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I. Alexander, P.
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III. Title: Effects . . .

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Mass Spectrometric Detection of Free Radicals
Formed in Heterogeneous Reactions, by P. Le Goff.
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Guinand, A. Mathieu-Sicand, 15 pp.

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AEC Tr 2653

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Role of Oxygen in the Luminophores S Zn (Cu), by
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Study of Surface Tension, by R. B. Kleven^s, M. Raison.
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Jul 59

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Hydrochloric Acid Solutions, by T. G. Gwe Berg,
31 pp

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1954, pp 290-298. 9228784
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The Structure and Texture of Nickel Catalysts on
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by W. Henkelow, J.J. Broeder, L. L. Van Raijen, 12 pp.

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Influence of the Geometrical Parameters of Catalyst
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7 pp.

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III. Oxidation of Ferrous Sulphate by Beta
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Electronic Properties of Aluminum Nitride,
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ATC-CP-1225

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DESCRIPTORS: *Iron alloys, *Chromium alloys, Oxida-
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Reaction kinetics, Thermodynamics, *Crystal growth,
*Domains (Crystallography), Microstructure.

(Metallurgy--Corrosion, TT, v. 9, no. 10)

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DESCRIPTORS: *Semiconductors, Optical properties,
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OPTICAL SENSITIZATION OF SEMI-CONDUCTORS BY
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Trans. of [Journal de] Chim[ie] Physique (France)
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DESCRIPTORS: *Semiconductors, Optics, Sensitivity,
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